**Source: VIDEO SWG Chairman[[1]](#footnote-1)**

**Title: VIDEO SWG telco report 23rd July 2024**

*The VIDEO SWG has the responsibility for general 3GPP SA4 video matters.*

MINUTES

# 3 VIDEO SWG

## 3.1 Opening of the meeting and Approval of Agenda

### 3.1.1 Opening of the meeting

Gilles Teniou (Tencent, SA4 Video SWG chair) opens the session on July 23, 2024, at 15:00 CEST.

Thomas Stockhammer (Qualcomm) and Mary-Luc Champel (Xiaomi) are assigned as scribes.

The minutes are shared online: [3GPP SA4 Video SWG Telco (July 23, 2024)](https://docs.google.com/document/d/1QOixS49xbzxBgQ_VG5iiCPUg5Jj7ZWVkc5duM4S4F-Q/edit?usp=sharing)

Details of the meeting can be found here:

* Overview: https://portal.3gpp.org/Home.aspx#/meeting?MtgId=60699
* TDocs: <https://portal.3gpp.org/ngppapp/TdocList.aspx?meetingId=60699>
* [Download TDoc list (Excel)](https://portal.3gpp.org/ngppapp/GenerateDocumentList.Aspx?meetingId=60699)

### 3.1.2 Registration of Documents

The following documents were registered:

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item** |
| [**S4aV240039**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240039.zip) | [FS\_Beyond2D] Multi-view content and tools | Philips, Nokia Corporation, InterDigital | 3.8 |
| [**S4aV240040**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240040.zip) | [FS\_Beyond2D] On Representation Formats | Qualcomm Germany | 3.8 |
| [**S4aV240041**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240041.zip) | [FS\_AVATAR] Mesh-based avatar protection | China Mobile Com. Corporation | 3.7 |
| [**S4aV240042**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240042.zip) | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Test Sequences | China Mobile Com. Corporation | 3.8 |
| [**S4aV240044**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240044.zip) | [FS\_Beyond2D] Representation Format - Stereoscopic Video with extensions | Qualcomm Germany | 3.8 |
| [**S4aV240046**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240046.zip) | [FS\_AVATAR]pCR on IMS mapping | HUAWEI TECHNOLOGIES Co. Ltd. | 3.7 |
| [**S4aV240049**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240049.zip) | VIDEO SWG telco report 9th July 2024 | VIDEO SWG Chair (Tencent) | 3.2 |
| [**S4aV240050**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240050.zip) | [FS\_FGS] Proposed Completion of Study | Qualcomm Germany | 3.6 |
| [**S4aV240051**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240051.zip) | [FS\_AI4Media] Nokia cross-check for the scenario on model compression for ASR | Nokia | 3.5 |
| S4aV240052 | [FS\_AI4Media] Cross-Check of Nokia’s results on bit-incremental model delivery | Fraunhofer HHI | 3.5 |
| [**S4aV240053**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240053.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (July 23rd, 2024) | VIDEO SWG Chair (Tencent) | 3.1 |

### 3.1.3 Approval of Agenda

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240053](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240053.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (July 23rd, 2024) | VIDEO SWG Chair (Tencent) | Gilles Teniou |

**Revisions**: none

**Presenter**: Gilles Teniou

**Online Discussion**:

**Decision**:

[S4aV240053](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240053.zip) is **approved**.

### 3.1.4 IPR and Antitrust Reminder

The chairman read the antitrust and IPR clause.

<https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Inbox/Drafts/IPR%20%26%20Competition%20Law/SA4-VIDEO-SWG-IPR-CompetionLaw.pptx>

*"The attention of the delegates to the meeting of this SWG was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.*

*The delegates were asked to take note that they were thereby invited:*

* *to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.*
* *to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms "*

*"The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chair and Vice-Chairs and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG/SWG meetings was important to allow for full and fair consideration of such matters."*

## 3.2 Reports/Liaisons from other groups/meetings

### 3.2.1 Reports from previous meetings

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240049](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240049.zip) | VIDEO SWG telco report 9th July 2024 | VIDEO SWG Chair (Tencent) | Gilles Teniou |

### Revisions: none

### Presenter: Gilles Teniou

### Online Discussion: not opened. To be noted. A copy of it will be sent to the next SA4 meeting for approval.

### Decision:

### [S4aV240049](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240049.zip) is noted.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240054](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240054.zip) | VIDEO SWG telco report 23rd July | VIDEO SWG Chair (Tencent) | Gilles Teniou |

### Presenter: none

### Online Discussion: not opened. Placeholder for the report of the current call. Automatically noted when made available. A copy of it will be sent to next SA4 meeting for approval.

### Decision:

### [S4aV240054](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240054.zip) is noted.

## 3.3 CRs to Features in Release 18 and earlier

No documents

## 3.4 VOPS (Video Operating Points - Harmonization and Stereo MV-HEVC)

*WID:* [*SP-240060*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240060.zip) *New WID on ‘Video Operating Points - Harmonization and Stereo MV-HEVC’*

No documents.

## 3.5 FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media)

*WID:* [*SP-220328*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220328.zip) *New SID on Artificial Intelligence (AI) and Machine Learning (ML) for Media*

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240051](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240051.zip) | [FS\_AI4Media] Nokia cross-check for the scenario on model compression for ASR | Nokia | Serhan Gül |

**Revisions**: none

**Presenter**: Serhan Gül

**Online Discussion**:

* Serhan presents

**Decision**: Mark in PD that results have been successfully cross-checked.

[S4aV240051](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240051.zip) is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240052](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240052.zip) | [FS\_AI4Media] Cross-Check of Nokia’s results on bit-incremental model delivery | Fraunhofer HHI | Gerhard Tech |

**Revisions**: none

**Presenter**:

**Online Discussion**:

**Decision**:

[S4aV240052](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240052.zip) is **withdrawn**.

## 3.6 FS\_FGS (Feasibility Study on Film Grain Synthesis)

*WID:* [*SP-230539*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230539.zip) *New SID on Feasibility Study on Film Grain Synthesis*

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240050](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240050.zip) | [FS\_FGS] Proposed Completion of Study | Qualcomm Germany | Thomas Stockhammer |

**Revisions**: none

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Gaelle: Which TR ?
	+ Thomas: we would need to create a new one at next meeting.
* Madhukar: supports the proposal of closing the study.
* Alexis: Probably need to be clearer in our questions and expectations to JVET. Unlikely that the work in JVET will be finalized by November.
* Mary-Luc: supports the proposal of closing.
* Gilles : It is not Video SWG responsibility to decide about future studies/work items to be started. We still need to pay attention to JVET response since they have adapted their workplan based on our request. I observe still a willingness to stop this activity.

**Decision**:

[S4aV240050](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240050.zip) is **agreed**.

## 3.7 FS\_AVATAR (Feasibility Study on Avatars for Real-Time Communication)

*WID:* [*SP-230544*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230544.zip) *New SID on Feasibility Study on Avatars for Real-Time Communication*

Note : Rapporteur is not present (but was at previous meeting when doc was first submitted), therefore agreement to note FS\_AVATAR related inputs and invite re-submission at SA4#129-e.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240041](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240041.zip) | [FS\_AVATAR] Mesh-based avatar protection | China Mobile Com. Corporation | Jiayi Xu |

**Revisions**: none

**Presenter**: Jiayi Xu

**Online Discussion**:

* Jiayi presents.
* Gilles: interesting, do you expect to run simulations on different attacks?
* Jiayi: only proposed for documentation into the TR.

**Decision**:

[S4aV240041](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240041.zip) is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240046](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240046.zip) | [FS\_AVATAR]pCR on IMS mapping | HUAWEI TECHNOLOGIES Co. Ltd. | Yongjing Zhang |

**Revisions**: none

**Presenter**: Yongjing Zhang

**Online Discussion**:

* YongJing presents
* Elmira : Is there anything about avatar authentication?
	+ YJ : Call flow includes avatar identification but no authentication (it is assumed)
	+ Gilles : Authentication depends on the service. Other groups may work on this. It seems it is not in the scope of our study and could be done outside of SA4.
	+ Eric : What is proposed is inline with what SA2 has already defined. Authentication should be left to SA3.
* Eric : Recommends to wait for SA2 conclusions.
	+ YJ : What is the timeline? How long should we wait?
	+ Gilles : Stage3 should wait for fully defined stage 2 architecture.
		- Resubmit at next meeting. Could go to the PD for the moment if the content is agreeable.

**Decision**:

[S4aV240046](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240046.zip) is **noted**.

## 3.8 FS\_Beyond2D (Study on Beyond 2D Video)

*WID:* [*SP-240479*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240479.zip) *New SID on Feasibility Study on Beyond 2D Video*

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240039](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240039.zip) | [FS\_Beyond2D] Multi-view content and tools | Philips, Nokia Corporation, InterDigital | Bart Kroon |

**Revisions**: none

**Presenter**: Bart Kroon

**Online Discussion**:

* Was shortly presented at last meeting.
* Mary-Luc : What do we measure if we use a proprietary tool?
	+ Bart : bitstream would be standards compliant.
* Thomas : Slightly uncomfortable with using proprietary tools too. We first need to understand the signals we are working with before we actually look at the compression aspects.
* Gilles : We indeed need to agree on a representation format that meets our requirements.
* Thomas : we assume significant “quality” is met without having defined what “quality” is.
* Gilles, Bart : there are many measurements impacting the quality. Should we favor some?
* Gilles : proprietary tools would allow us to benefit from better encoding solutions but is there also a standard solution available? Topics such as encoder settings should be fixed and agreed at the beginning.

**Decision**: Document is noted and focus should be put on representation format first.

[S4aV240039](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240039.zip) is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240040](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240040.zip) | [FS\_Beyond2D] On Representation Formats | Qualcomm Germany | Thomas Stockhammer |

**Revisions**: none

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Thomas presents
* Gaelle : Clarification on extensibility of format
	+ Thomas : addition of auxiliary data, for instance. Extensibility of format, not codec. We are talking about representation format only.

**Decision**: Agreed template to collect and document information on representation formats. moved to draft TR

[S4aV240040](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240040.zip) is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240042](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240042.zip) | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Test Sequences | China Mobile Com. Corporation | Jiayi Xu |

**Revisions**: none

**Presenter**: Jiayi Xu

**Online Discussion**:

* Gaelle: Copyrights statements need further checking
	+ Jiayi : The author is ready to grant rights to 3GPP
* Gaelle: Deep3D is proprietary solution that may cause problems to some of our members due to its license use
* Thomas: Generation of sequences can be done with proprietary tools as long as there is no intent to characterize the quality of the encoder. Information on licenses is useful for anyone to decide if they can use it but eventually everyone will use the produced sequences.
* Gilles: Do we expect additional device capabilities (for capture)?
* Gaelle: We have to be consistent in our decisions to use proprietary solutions/tools.
	+ JiaYi : only offer production tools to be used. No obligation to use.
* Madhukar: 2D to 3D tool : it is not clear where it can be used. What is the proposal?
	+ JiaYi : only offer production tools to be used. No obligation to use.
	+ Madhukar : offer to remove this tool since we care about stereoscopic content and not how it is produced.
	+ JiaYi offer to produce synthetic content
	+ Madhukar would prefer using natural stereoscopic content
* Bart: representation format is not clearly defined here.
* Gilles: several clarifications are needed. How will we characterize which sequences are good to use or not?
* Madhukar: Ask for a note asking that synthetic content is only used if natural stereoscopic content is not good quality enough.
* Gaelle: We should look at sequences and their characteristics rather than at production tools.
* Gilles: This contribution documents how source sequences may be produced. The most important for us is, for a given representation format, agree on a limited set of source sequences that are agreed by the group for the codec characterization. Quality aspects are to be considered as part of the content selection.

**Decision**:

[S4aV240042](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240042.zip) is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240044](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240044.zip) | [FS\_Beyond2D] Representation Format - Stereoscopic Video with extensions | Qualcomm Germany | Thomas Stockhammer |

**Revisions**: none

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Thomas presents
* Serhan : Camera characteristics ?
	+ Thomas : will bring more information on that matter.
* Serhan : Quality observations are just statements from a single person. We need something more proven.
* Waqar : Offer to help on camera characteristics.
* Madhukar : What are these extensions to stereoscopic video?
	+ Thomas : anything not related to stereoscopic but still can be used : HDR, fisheye, …
* JiaYi : Signal properties : Is there any reference for them?
* Gaelle : need to better clarify what could go in TR and what would not. Format description and extensions should be clearly separated.
* Gilles : need to revise document to address these comments

**Decision**:

[S4aV240044](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240044.zip) is **noted**.

## 3.9 Others including TEI

No documents

## 3.10 Close of the session

### 3.10.1 Any other business

none

### 3.10.2 Review of the future work plan

~~3GPP SA4 Video SWG Telco (June 25th, 2024, 15:00 – 17:00 CEST, Host Qualcomm)~~

~~3GPP SA4 Video SWG Telco (July 9th, 2024, 15:00 – 17:00 CEST, Host Qualcomm)~~

~~3GPP SA4 Video SWG Telco (July 23rd, 2024, 15:00 – 17:00 CEST, Host Qualcomm)~~

Next meeting: SA4#129-e meeting 19th to 23rd Aug. (contribution deadline: Tues. 13th Aug. 23:59 CEST).

### 3.10.3 Report

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV240054](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240054.zip) | VIDEO SWG telco report 23rd July | VIDEO SWG Chair (Tencent) | Gilles Teniou |

To be **noted**

### 3.10.4 Close of the session

The meeting was closed at 17:10 CEST.

Telco Participants

27 participants

|  |  |
| --- | --- |
| **Name** | **Company** |
| **Alexis Tourapis** | **Apple** |
| **Waqar Zia** | **Apple** |
| **Jan Outters** | **Ateme** |
| **Jiayi Xu** | **China Mobile** |
| **Brian Lee** | **Dolby** |
| **Simon Gauntlett** | **Dolby** |
| **Frédéric Gabin** | **Dolby (SA4 chair)** |
| **Mauricio Aracena** | **Ericsson** |
| **Gerhard Tech** | **Fraunhofer HHI** |
| **Yongjing Zhang** | **Huawei** |
| **Rufael Mekuria** | **Huawei** |
| **Qi Pan** | **Huawei** |
| **Elfed Howells** | **Huawei** |
| **Gaëlle Martin-Cocher** | **InterDigital** |
| **Woosuk Kwon** | **LGE** |
| **Yousef Abdelmalek** | **Meta** |
| **Serhan Gül** | **Nokia** |
| **Shane He** | **Nokia** |
| **Stéphane Ragot** | **Orange** |
| **Bart Kroon**  | **Philips** |
| **Thomas Stockhammer**  | **Qualcomm** |
| **Shilin Ding** | **Qualcomm** |
| **Eric Yip** | **Samsung** |
| **Madhukar Budagavi** | **Samsung** |
| **Gilles Teniou** | **Tencent (VIDEO SWG Chair)** |
| **Elmira Ramazanirend** | **Vodafone** |
| **Mary-Luc Champel** | **Xiaomi** |

Annex A - The documents status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tdoc number** | Title | Source | SWG Agenda Item | Replaced by | SWG Status | SA4 A.I. for Tdocs presented at SA4 plenary\* |
| [S4aV240019](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240019.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (June 25th, 2024) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| [S4aV240020](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240020.zip) | Elements of characterization for codecs supporting the “streaming single asset” scenario | InterDigital Communications | 3.8 |  | noted |  |
| [S4aV240021](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240021.zip) | [FS\_Beyond2D] Candidate sequences for “streaming single asset” scenario | InterDigital Communications | 3.8 |  | agreed |  |
| [S4aV240022](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240022.zip) | [FS\_Beyond2D] Scenario UE-to-UE Beyond 2D Video Streaming | China Mobile Com. Corporation | 3.8 |  | agreed |  |
| [S4aV240023](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240023.zip) | [FS\_Beyond2D] Summary of AR Video Capabilities from TS 26.119 | China Mobile Com. Corporation | 3.8 |  | agreed |  |
| [S4aV240024](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240024.zip) | [FS\_Beyond2D] Evaluation of multi-view content | Philips International B.V. | 3.8 |  | agreed |  |
| [S4aV240025](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240025.zip) | [FS\_Beyond2D] Multi-view content and tools | Philips International B.V. | 3.8 |  | noted |  |
| [S4aV240026](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240026.zip) | LS on AI logic functions mapping to existing IMS architecture | HUAWEI TECHNOLOGIES Co. Ltd. | 3.5 |  | noted |  |
| [S4aV240027](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240027.zip) | [FS\_Beyond2D] On Representation Formats | Qualcomm Germany | 3.8 |  | agreed |  |
| [S4aV240028](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240028.zip) | [FS\_AVATAR] pCR on 2D avatar description | HUAWEI TECHNOLOGIES Co. Ltd. | 3.7 |  | agreed |  |
| [S4aV240029](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240029.zip) | AI4Media Collaboration Scenarios | Qualcomm Incorporated | 3.5 |  | agreed |  |
| [S4aV240030](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240030.zip) | AI4Media Mapping to IMS | Qualcomm Incorporated | 3.5 |  | noted |  |
| [S4aV240031](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240031.zip) | [FS\_AI4Media] pCR on real-time communication scenarios | China Mobile Com. Corporation, Huawei | 3.5 |  | noted |  |
| [S4aV240032](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240032.zip) | VIDEO SWG telco report 25th June 2024 | VIDEO SWG Chair (Tencent) | 3.2 | S4aV240035 | revised |  |
| [S4aV240033](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240033.zip) | TimePlan for FS\_Haptic | InterDigital, Europe, Ltd. | 3.9 |  | noted |  |
| [S4aV240034](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240034.zip) | Draft\_TR 26.854\_V0\_Haptics\_skeleton | InterDigital, Europe, Ltd. | 3.9 |  | noted |  |
| [S4aV240035](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240035.zip) | VIDEO SWG telco report 25th June 2024 | VIDEO SWG Chair (Tencent) | 3.2 |  | noted |  |
| [S4aV240036](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240036.zip) | Draft Time Plan for the FS\_ARSpatial Study Item v0.1.0 | InterDigital Canada | 3.9 |  | noted |  |
| [S4aV240037](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240037.zip) | Qualcomm's View on New Work Items | Qualcomm Germany | 3.9 |  | noted |  |
| S4aV240038 | [FS\_Beyond2D] | Philips | 3.8 |  | withdrawn |  |
| [S4aV240039](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240039.zip) | [FS\_Beyond2D] Multi-view content and tools | Philips, Nokia Corporation, InterDigital | 3.8 |  | noted |  |
| [S4aV240040](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240040.zip) | [FS\_Beyond2D] On Representation Formats | Qualcomm Germany | 3.8 |  | agreed |  |
| [S4aV240041](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240041.zip) | [FS\_AVATAR] Mesh-based avatar protection  | China Mobile Com. Corporation | 3.7 |  | noted |  |
| [S4aV240042](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240042.zip) | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Test Sequences | China Mobile Com. Corporation | 3.8 |  | noted |  |
| [S4aV240043](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240043.zip) | [FS\_Beyond2D] Quality examples of the point cloud representation format for streaming single asset scenario | InterDigital Communications | 3.8 |  | noted |  |
| [S4aV240044](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240044.zip) | [FS\_Beyond2D] Representation Format - Stereoscopic Video with extensions | Qualcomm Germany | 3.8 |  | noted |  |
| [S4aV240045](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240045.zip) | [FS\_AI4Media] Update to bit-incremental model delivery evaluation | Nokia | 3.5 |  | agreed |  |
| [S4aV240046](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240046.zip) | [FS\_AVATAR]pCR on IMS mapping | HUAWEI TECHNOLOGIES Co. Ltd. | 3.7 |  | noted |  |
| S4aV240047 | [FS\_AI4Media] Split and Compression evaluations in 5G MAG  | InterDigital Finland Oy | 3.5 |  | agreed |  |
| S4aV240048 | Proposed agenda for SA4 VIDEO SWG conf. call (Jul.9th, 2024) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| S4aV240049 | VIDEO SWG telco report 9th July 2024 | VIDEO SWG Chair (Tencent) | 3.2 |  | noted |  |
| [S4aV240050](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240050.zip) | [FS\_FGS] Proposed Completion of Study | Qualcomm Germany | 3.6 |  | agreed |  |
| [S4aV240051](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240051.zip) | [FS\_AI4Media] Nokia cross-check for the scenario on model compression for ASR | Nokia | 3.5 |  | agreed |  |
| S4aV240052 | [FS\_AI4Media] Cross-Check of Nokia’s results on bit-incremental model delivery | Fraunhofer HHI | 3.5 |  | withdrawn |  |
| [S4aV240053](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV240053.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (July 23rd, 2024) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| S4aV240054 | VIDEO SWG telco report 23rd July 2024 | VIDEO SWG Chair (Tencent) | 3.2 |  | noted |  |

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